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## **AMENDMENTS TO THE CLAIMS**

Please **AMEND** claims 1, 2, 6, 7, 8, 15, 16, 18, 19, 20 and 22-29, as shown below.

The following is a complete list of all claims in this application.

1. (Currently Amended) A display device, comprising:

a substrate comprising:

a pixel region having a pixel for producing an image, the pixel comprising a thin

film transistor as a switching device; and

a peripheral region adjoining the pixel region and having a pad connected to the

pixel for applying an electrical signal to the pixel, wherein the pad is a gate pad or a data

pad;

an insulation a photosensitive layer formed on the pixel region and the peripheral region;

and

an opening region formed in the peripheral region,

wherein the photosensitive layer has a first thickness in the opening region and a second

thickness in the peripheral region except for the opening region, the first thickness being smaller

than the second thickness the pad is formed in the opening region and the opening region has a

periphery greater than that of the pad.

2. (Currently Amended) The display device of claim 1, wherein the pad is formed in

the opening region and the opening region has a periphery greater than that of the pad the

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insulation layer has a first thickness in the opening region and a second thickness in the peripheral region except for the opening region, the first thickness being smaller than the second thickness.

- 3. (Cancelled)
- 4. (Previously Presented) The display device of claim 2, wherein the second thickness is about 0.3 to about  $3.0 \mu m$ .
- 5. (Previously Presented) The display device of claim 2, wherein a difference between the second thickness and the first thickness is about 2.1 to about 2.4  $\mu$ m.
- 6. (Currently Amended) The display device of claim 1, wherein a rugged structure is formed on the insulation photosensitive layer in the pixel region.
- 7. (Currently Amended) The display device of claim 6, wherein a thickness of the insulation photosensitive layer in the pixel region is no more than the second thickness.
- 8. (Currently Amended) The display device of claim 1, wherein the insulation photosensitive layer comprises:
- a first organic insulation layer formed in the pixel region and the peripheral region except for the opening region; and

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a second organic insulation layer formed in the pixel region and the peripheral region including the opening region,

wherein the second organic insulation layer has a rugged structure in the pixel region and an opening formed in the opening region and exposing the pad.

9. (Previously Presented) The display device of claim 1, wherein the insulation layer comprises:

a first insulation layer having a reflective electrode pattern in the pixel region and a peripheral pattern in the peripheral region; and

a second insulation layer covering the first insulation layer and having a rugged structure in the pixel region and an opening exposing the pad in the opening region, wherein the second insulation layer is continuously expanded from the pixel region to the peripheral region.

10. (Previously Presented) A reflection type liquid crystal display (LCD) device, comprising:

a first substrate having a first region and a second region wherein the first region includes a pixel region on the first substrate where a pixel is formed to produce an image and a peripheral region surrounding the pixel region and a pad connected to the pixel is formed on the second region for applying an electrical signal to the pixel from outside;

a second substrate opposed to the first substrate;

a liquid crystal layer formed between the first substrate and the second substrate;

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a reflection electrode formed at the central portion of the first substrate, the reflection

electrode having a rugged structure comprising a relatively high portion and a relatively low

portion; and

an organic insulation layer formed between the first substrate and the reflection electrode

and formed in the first region and the second regions wherein the organic insulation layer has a

rugged structure identical to the rugged structure of the reflection electrode at a central portion of

the first region and an opening in the second region to expose the pad, and a second thickness of

the organic insulation layer around the opening is less than a first thickness of the organic

insulation layer in the peripheral region.

11. (Previously Presented) The reflection type LCD device of claim 10, wherein the

rugged structure comprises a plurality of protrusions and a plurality of grooves.

12. (Previously Presented) The reflection type LCD device of claim 10, wherein the

second thickness is about 0.3 to about 3.0 µm.

13. (Previously Presented) The reflection type LCD device of claim 10, wherein a

difference between the second thickness and the first thickness is about 2.1 to about 2.4 µm.

14. (Previously Presented) The reflection type LCD device of claim 10, wherein a

thickness of the organic insulation layer in the pixel region is no greater than the second

thickness.

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15. (Currently Amended) A method for manufacturing a display device, comprising

the steps of:

forming a pixel in a pixel region of a substrate, the pixel including a thin film transistor as

a switching device;

forming a pad in a peripheral region of the substrate, wherein the pad is a gate pad or a

data pad;

forming an insulation a photosensitive layer over the pixel region and a the peripheral

region; and

patterning the insulation photosensitive layer to form an opening region in the peripheral

region such that the photosensitive layer has a first thickness in the opening region and a second

thickness in the peripheral region except for the opening region, the first thickness being smaller

than the second thickness, the opening region including the pad and having a periphery greater

than that of the pad.

16. (Currently Amended) The method of claim 15, wherein the pad is formed within

in the opening region and the opening region has a periphery greater than that of the pad the

insulation layer has a first thickness in the opening region and a second thickness in the

peripheral region except for the opening region, the first thickness being smaller than the second

thickness.

17. (Cancelled)

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18. (Currently Amended) The method of claim 15, further comprising a step for of forming a reflection electrode on the insulation photosensitive layer in the pixel region and forming a pad electrode on the pad in the opening region.

- 19. (Currently Amended) The method of claim 18, wherein the reflection electrode and the pad electrode are simultaneously formed by coating a metal layer composed of a reflective metal on the insulation photosensitive layer and by patterning the metal layer.
- 20. (Currently Amended) The method of claim 15, wherein the step for of forming the insulation photosensitive layer comprises the steps of:

forming a first insulation layer on the substrate;

selectively removing the first insulation layer in the opening region;

forming a second insulation layer in the pixel region and in the peripheral region; and forming an opening exposing the pad in the second insulation layer in the opening region.

- 21. (Previously Presented) The method of claim 20, wherein the first insulation layer and the second insulation layer are organic resists.
- 22. (Currently Amended) The method of claim 20, wherein the step for of selectively removing the first insulation layer in the opening region comprises:

forming a contact hole in the first insulation layer for connecting the pixel;

full exposing the first insulation layer with an exposure amount for forming the contact hole after a first mask is positioned over the first insulation layer to remove the first insulation layer; and

developing the exposed first insulation layer.

23. (Currently Amended) The method of claim 20, wherein the step for of forming the opening in the second insulation layer comprises the steps of:

forming a rugged structure on the second insulation layer after a second mask is positioned over the second insulation layer;

exposing the second insulation layer with an exposure amount identical to an exposure amount for forming the rugged structure after the second mask for forming the opening is positioned over the second insulation layer; and

developing the exposed second insulation layer.

24. (Currently Amended) The method of claim 15, wherein the step for of forming the insulation photosensitive layer comprises steps of:

forming a first insulation layer on the pixel region and the peripheral region;

patterning the first insulation layer to form a first insulation pattern and a contact hole in the pixel region and to selectively remove the first insulation layer in the opening region;

forming a second insulation layer in the pixel region and the peripheral region; and forming an opening in the second insulation layer in the opening region.

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25. (Currently Amended) The method of claim 24, wherein the step for of patterning the first insulation layer further comprises steps of:

positioning a first mask on the first insulation layer for forming a rugged structure and a contact hole;

exposing the first insulation layer with an exposure amount for forming the contact hole; and

developing the exposed first insulation layer.

26. (Currently Amended) The method of claim 25, wherein the step for of forming the opening comprises steps of:

positioning a second mask over the second insulation layer for forming the contact hole and the opening;

exposing the second insulation layer; and developing the exposed second insulation layer.

27. (Currently Amended) The method of claim 15, wherein the step for of forming the insulation photosensitive layer comprises steps of:

forming an organic insulation layer on the substrate;

primarily exposing the organic insulation layer with a full exposure amount for removing the organic insulation layer on the pad;

partially exposing the organic insulation layer in the opening region; and

forming an opening in the opening region and partially removing the organic insulation layer around the opening in the opening region by developing the exposed organic insulation layer.

28. (Currently Amended) The method of claim 27, wherein the step for of primarily exposing the organic insulation layer comprises steps of:

positioning a first mask over the organic insulation layer; and
exposing the organic insulation layer with a full exposure amount for forming the
opening and a contact hole for electrically connecting the pixel.

- 29. (Currently Amended) The method of claim 28, wherein the step for of exposing the organic insulation layer is performed by exposing the organic insulation layer and the second region with a lens exposure amount for forming a reflection electrode on the organic insulation layer.
  - 30. (Previously Presented) A display device comprising: a substrate comprising:

a pixel region having a pixel formed thereon and a peripheral region; and a peripheral region having a pad connected to the pixel, wherein the peripheral region has an opening region and the pad is formed within the opening region;

a first insulating layer formed over the pixel region including the pixel and the peripheral region except for the opening region, the first insulating layer fully exposing the pad; and

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a second insulating layer formed on the pixel region and the peripheral region including the opening region and having an opening exposing the pad.

31. (Previously Presented) The display device of claim 30, further comprising a

rugged structure formed on a surface of the second insulation layer.

32. (Previously Presented) The display device of claim 30, wherein the first insulation

layer includes a plurality of grooves, and the second insulation layer has a rugged surface.

33. (Previously Presented) A method of manufacturing a display device, comprising

steps of:

forming a pixel in a pixel region of a substrate;

forming a pad in a peripheral region of the substrate, wherein the peripheral region has an

opening region and the pad is formed within the opening region, the pad electrically connected to

the pixel;

forming a first insulation layer on the pixel region and peripheral region;

removing a portion of the first insulation layer in the opening region to fully expose the

pad;

forming a second insulation layer on the first insulation layer and the opening region; and

removing a portion of the second insulation layer to form an opening for exposing the

pad.

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34. (Previously Presented) The method of claim 33, further comprising a step of forming a rugged structure on a surface of the second insulation layer.

- 35. (Previously Presented) The method of claim 33, wherein the step of forming a first insulating layer comprises forming a plurality of grooves therein.
  - 36. (Previously Presented) A display device, comprising:
  - a substrate comprising:
  - a pixel region having a pixel; and
- a peripheral region adjoining the pixel region and having a pad electrically connected to the pixel; and

an insulation layer formed on the pixel region and the peripheral region, the insulation layer having an opening formed in the peripheral region to expose the pad; and

wherein the opening has a periphery larger than that of the bump.

a bump forming electrical contact with the pad in the opening,

- 37. (Previously Presented) The display device of claim 36, further comprising a conductive film having a plurality of conductive balls and forming electrical contact between the bump and the pad.
- 38. (Previously Presented) A method for manufacturing a display device, comprising steps of:

forming a pixel in a pixel region of a substrate;

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forming a pad in a peripheral region of the substrate;

forming an insulation layer on the pixel region and the peripheral region; and removing a portion of the insulation layer in the peripheral region to form an opening exposing the pad;

electrically connecting a bump to the pad in the opening, wherein the opening has a periphery greater than that of the bump.

39. (Previously Presented) A display device, comprising:

a substrate comprising:

a pixel region having a pixel; and

a peripheral region adjoining the pixel region and having a pad electrically connected to the pixel;

an insulation layer formed on the pixel region and the peripheral region and having an opening formed in the peripheral region to expose the pad; and

a bump electrically connected to the pad in the opening,

wherein an upper surface of the insulation layer is not lower than a lower surface of the bump.